

LAB MANUAL

For

Data Communication & Computer Network

Faculty Of Computing and Software Engineering

Target Group computer Science & Information Technology Students

BY Gashaw Alemu

S.No	Experiment
1.	Study of Network Devices in Detail.
2.	Study of network IP.
3.	Connect the computers in Local Area Network.
4.	Study of basic network command and Network configuration commands.
5.	Performing an Initial Switch Configuration
6.	Performing an Initial Router Configuration
7.	Configuring and Troubleshooting a Switched Network
8.	Connecting a Switch
9.	Configuring WEP on a Wireless Router
10.	Using the Cisco IOS Show Commands
11.	Examining WAN Connections
12.	Interpreting Ping and Traceroute Output
13.	Demonstrating Distribution Layer Functions
14.	Placing ACLs
15.	Exploring Different LAN Switch Options
16.	Implementing an IP Addressing Scheme
17.	Examining Network Address Translation (NAT)

Data Communication And Computer Networking Lab Manual

Frances S. Grodzinsky



Data Communication And Computer Networking Lab Manual:

Networking and Data Communications Laboratory Manual Frances S. Grodzinsky, 1999 Designed for any introductory networking or data communications course This laboratory manual is designed for the purpose of enhancing the understanding of concepts discussed in a variety of networks and data communications texts This manual represents a work of dedication and collaboration by faculty from universities and colleges across the country **NBS Special Publication**, 1973 OPNET Lab Manual to Accompany Data and Computer Communications, Seventh Edition Kevin Brown, William Stallings, Leann Christianson, 2005 **Information Communication Technologies: Concepts, Methodologies, Tools, and Applications** Van Slyke, Craig, 2008-04-30 The rapid development of information communication technologies ICTs is having a profound impact across numerous aspects of social economic and cultural activity worldwide and keeping pace with the associated effects implications opportunities and pitfalls has been challenging to researchers in diverse realms ranging from education to competitive intelligence **Scientific and Technical Aerospace Reports**, 1995-08 **Publications of the National Bureau of Standards** United States. National Bureau of Standards, 1986 **IT Essentials** Cisco Networking Academy, Kathleen Czurda-Page, Laura Kier, 2013 IT Essentials PC Hardware and Software Companion Guide Fifth Edition IT Essentials PC Hardware and Software Companion Guide Fifth Edition supports the Cisco Networking Academy IT Essentials PC Hardware and Software version 5 course The course is designed for Cisco Networking Academy students who want to pursue careers in IT and learn how computers work how to assemble computers and how to safely and securely troubleshoot hardware and software issues As CompTIA Approved Quality Content the course also helps you prepare for the CompTIA A certification exams 220 801 and 220 802 CompTIA A 220 801 covers the fundamentals of computer technology installation and configuration of PCs laptops related hardware and basic networking CompTIA A 220 802 covers the skills required to install and configure PC operating systems and configure common features such as network connectivity and email for Android and Apple iOS mobile operating systems Students must pass both exams to earn the CompTIA A certification The features of the Companion Guide are designed to help you study and succeed in this course Chapter objectives Review core concepts by answering the focus questions listed at the beginning of each chapter Key terms Refer to the updated lists of networking vocabulary introduced and turn to the highlighted terms in context Course section numbering Follow along with the course heading numbers to easily jump online to complete labs activities and quizzes referred to within the text Check Your Understanding Questions and Answer Key Evaluate your readiness with the updated end of chapter questions that match the style of questions you see on the online course quizzes Glossary in the back of the book to define Key Terms The lab icon in the Companion Guide indicates when there is a hands on Lab or Worksheet to do The Labs and Worksheets are compiled and published in the separate book IT Essentials PC Hardware and Software Lab Manual Fifth Edition With more than 1300 pages of activities including Windows 7 Windows Vista and Windows XP variations covered in the CompTIA A

exam objectives practicing and performing these tasks will reinforce the concepts and help you become a successful PC technician

The Computer Utility: Implications for Higher Education Michael A. Duggan, Edward F. McCartan, Manley Rutherford Irwin, 1970

Annotated Bibliography of the Literature on Resource Sharing Computer Networks Helen M. Wood, Shirley Ward Watkins, Ira W. Cotton, 1976

Real-Time Environmental Monitoring Miguel F. Acevedo, 2023-09-29

Written 10 years after the publication of the first edition this updated edition of Real Time Environmental Monitoring Sensors and Systems introduces the fundamentals of environmental monitoring based on electronic sensors instruments systems and software that allow continuous and long term ecological and environmental data collection It accomplishes two objectives explains how to use sensors for building more complex instruments systems and databases and introduces a variety of sensors and systems employed to measure environmental variables in air water soils vegetation canopies and wildlife observation and tracking This second edition is thoroughly updated in every aspect of technology and data and each theoretical chapter is taught parallel with a hands on application lab manual Emphasizes real time monitoring as an emerging area for environmental assessment and compliance and covers the fundamentals on how to develop sensors and systems Presents several entirely new topics not featured in the first edition including remote sensing and GIS machine learning weather radar and satellites groundwater monitoring spatial analysis and habitat monitoring Includes applications to many environmental and ecological systems Uses a practical hands on approach with the addition of an accompanying lab manual which students can use to deepen their understanding based on the author s 40 years of academic experience Intended for upper level undergraduate and graduate students taking courses in civil and environmental engineering electrical engineering mechanical engineering geosciences and environmental sciences as well as professionals working in environmental services and researchers and academics in engineering

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